

Program Name:

ELECTRICAL TECHNOLOGY

2024-2025 SCOPE & SEQUENCE

Secondary Scope & Sequence

- ⊙ Technical - Major units and levels with estimated hours
- ⊙ Academic - Recommended

| Subject – Hours | Level I | Estimate of Hours | Level II | Estimate of Hours | Level III | Estimate of Hours | Level IV | Estimate of Hours |
|--|---|-------------------|---|-------------------|--|-------------------|--|-------------------|
| Technical | INTRO TO ELECTRICAL SAFETY, MATH, HAND AND POWER TOOLS | 125 | BASIC MOTOR CONTROL-PUSHBUTTONS AND MOTOR STARTER | 60 | BASIC MOTOR CONTROL-TIMERS, SELENOIDS, AND LIMIT SWITCHES | 71 | GREEN TECHNOLOGY APPLICATIONS | 75 |
| | BLUEPRINT READING | 19 | NATIONAL ELECTRIC CODE - SECTION VERIFICATION | 70 | COMMERCIAL AND INSTITUTIONAL WIRING CALCULATION AND APPLICATIONS | 135 | PNEUMATIC CONTROLS-APPLICATIONS | 66 |
| | ANCHORS AND SUPPORT AND RACEWAYS | 35 | FIXTURES AND OTHER WIRED DEVICES | 65 | NATIONAL ELECTRICAL CODE - APPLICATION | 45 | HYDRAULIC CONTROLS-APPLICATIONS | 130 |
| | CABLE TYPES, INSTALLATIONS, RESIDENTIAL CABLING TECHNOLOGY +B39 | 69 | TESTING EQUIPMENT | 40 | GREEN TECHNOLOGY THEORY | 28 | NATIONAL ELECTRICAL CODE - INTERPRETATION | 40 |
| | SWITCHES AND RECEPTACLE CIRCUITS | 72 | ELECTIRCAL SERVICE | 125 | OTHER RESIDENTIAL ELECTRICAL REQUIREMENTS | 54 | BASIC PROGRAMMABLE CONTROLS-APPLICATIONS | 20 |
| | NATIONAL ELECTRIC CODE - STRUCTURE | 40 | | | TRANSFORMERS, GENERATORS, MOTORS, AND ALTERNATORS | 15 | INDUSTRIAL WIRING APPLICATIONS | 29 |
| | | | | | BASIC PROGRAMMABLE CONTROL LADDER DIAGRAMS | 12 | | |
| | | | | | | | College Prep English IV | |
| English (4) | College Prep English I | | College Prep English II | | College Prep English III | | Higher Level College Prep Math (recommended) | |
| Math (3) | Algebra I | | Algebra II | | Geometry | | | |
| Science (3) | Biology | | Chemistry | | Physics | | | |
| Humanities (covering these courses in any order) (3) | Civics | | U.S. History | | World History | | | |
| Other | Foreign Language I (recommended) | | Foreign Language II (recommended) | | | | | |